

Product datasheet for **MG207314**

Kat8 (NM_026370) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kat8 (NM_026370) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kat8
Synonyms:	2010203C02Rik; 5830450F21Rik; D7Ertd629e; MOF; Myst1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207314 representing NM_026370
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCACAGGGAGCTACAGCTGCAGTTGCTGCAACAACCTCAGGAAGTGTAGGGGAGGGAGAGCCCG
 GCCCGGGGAAAAATGCAGCAGTCGAGGGGCTGCCCGGTCCCGGGCCGGTCTCTCCGCCGACTCCGGC
 CGGTGGCGAACAGAAAGTACCCTGGAGATCGGAGAAACGTACCTGTGCCGGCGCCGGATAGCACCTGG
 CATTACAGCAGAAGTGATCCAGTCTCGAGTGAATGACCAGGAAGGCCGAGAAGAATTCTATGTTCACTATG
 TGGGCTTTAACAGGGCAGTGGACGAATGGGTGGACAAGAACCAGTCCGACTGACCAAGACAGTGAAGGA
 TGCCGTGCAGAAGAACTCTGAGAAATACCTGAGTGAGCTGGCCGAGCAGCCAGAGCGCAAGATCACTCGA
 AACCAAAAGCGAAAGCATGATGAGATCAACCATGTGCAGAAGACCTATGCAGAGATGGACCCACCACAG
 CAGCCTTGAAAAAGAACACGAGGCGATACCAAAAGTGAAGTATGTAGACAAGATCCACATTGGGAACTA
 TGAATCGATGCCTGGTATTTCTCACCTTTCCAGAGGACTATGGGAAGCAGCCCAAGCTTTGGCTCTGC
 GAGTACTGCCTCAAATACATGAAGTTCGAGAAGAGCTACCGCTTCCACCTGGGCCAGTGTGAGTGGCGGC
 AGCCCCAGGGAAGGAGATCTATCGAAAGAGCAACATCTCTGTGTATGAAGTGGATGGCAAAGACCACAA
 GATATACTGTGAGAACCTGTGTCTACTGGCCAAGCTTTTCTGGACCACAAGACCTTGTATTTTGTATGTG
 GAGCCCTTTGTCTTTTACATTCTGACAGAAGTAGATAGGCAAGGGGCTCACATTGTTGGCTACTTTTCTA
 AGGAGAAGGAATCCCAGATGGAACAACGTGGCTGCATCTTGACCCTGCCTCCCTACCAGCGCGTGG
 CTATGGGAAGTTTCTCATCGCTCAGTTATGAGCTCTCTAAGCTCGAGAGTACTGTAGGCTCCCGAGAG
 AAGCCACTGAGTGACCTGGGCAACTCAGCTACAGAAGCTACTGGTCATGGGTCTTGCTGGAGACTCTGC
 GAGACTTCGGGGCACATTGTCTATCAAAGATTTTAGCCAGATGACCAGCATACCCAGAATGACATCAT
 CAGCACCTGCAGTCCCTCAACATGGTCAAGTACTGGAAGGGCCAGCATGTTATCTGTGTACACACCTAAG
 CTGGTAGAGGAACACCTCAAAGTGCCAGTATAAGAAACCACCTATCACAGTGGACTCTGTCTGCCTCA
 AGTGGGCACCCCGAAGCACAAACAAGTCAAGCTTTCCAAGAAG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207314 representing NM_026370
 Red=Cloning site Green=Tags(s)

MAAQGATAVAATTSGLVGEPEPGENAAVEGPARSPGRVSPPTPARGEPEVTVEIGETYLRRPDSTW
 HSAEVIQSRVNDQEGREEFYVHYVGFNRRLDEWVDKNRLALTKTVKDAVQKNSKEYLSELAEQPERK ITR
 NQKRKHDEINHVQKTYAEMDPTTAALKEHEAITKVYVDKIHIGNYEIDAWYFSPFPEDYQKPKLWLC
 EYCLKYMKFEKSYRFLGQCQWRQPPGKEIYRKSNISVYEVGDKDHIYCNLCLLAKFLDHTKLYFDV
 EPFVFYILTEVDRQGAHIVGYFSKEKESPDGNNVACILTPPYQRRGYGKFLIAFSYELSKLESTVGSPE
 KPLSDLGKLSYRSYWSVLLLEILRDFRGLTSIKDFSQMTSITQNDIISTLQSLNMVYKWKQHVICVTPK
 LVEEHLKSAQYKPPITVDSVCLKWAPPKHKQVKLSKK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_026370.1 , NP_080646.1
RefSeq Size:	1503 bp
RefSeq ORF:	1377 bp
Locus ID:	67773
UniProt ID:	Q9D1P2
Cytogenetics:	7 69.83 cM
Gene Summary:	Histone acetyltransferase which may be involved in transcriptional activation. May influence the function of ATM. As part of the MSL complex it is involved in acetylation of nucleosomal histone H4 producing specifically H4K16ac. As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues. That activity is less specific than the one of the MSL complex. Can also acetylate TP53/p53 at 'Lys-120'. [UniProtKB/Swiss-Prot Function]